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ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: AN EXOPOLYSACCHARIDES DELIVERY SYSTEM FOR ACTIVE MOLECULES

(57) Abstract: The present invention relates to a delivery system for delivery of an active molecule to a patient, the delivery system comprising a population of exopolysaccharide micelles, each micelle defining a core for containing the active molecule.

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# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/CA 01899

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K9/107 A61K47/36 A61K31/337 A61K31/425 A61K31/715  
A61P35/00 A61K31/00 A61K39/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, EMBASE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
T	<p>'Online! XP002280832 Retrieved from the Internet: URL: <a href="http://www.roempp.com/thieme-chemistry/roempp/prod/index1.html">http://www.roempp.com/thieme-chemistry/roempp/prod/index1.html</a> 'retrieved on 2004-05-14! the whole document Paragraph 2 on page 1: Use of exopolysaccharide as immunostimulan or drug carrier Table</p> <p style="text-align: center;">----- -/--</p>	1

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*Z\* document member of the same patent family

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X, Y	WO 03/053158 A (DUPONT CLAUDE ; PAQUET MARCEL (CA); SIMARD ERIC (CA); LAJOIE NATHALIE) 3 July 2003 (2003-07-03) the whole document page 4, paragraph 2 - page 6, paragraph 2 pages 18-19 page 30, paragraph 2 - page 32, paragraph 1 claims 1,12,27,58; examples 1,6,9,19-22,26,33,37	1-39
X,Y	BURNHAM N L: "POLYMERS FOR DELIVERING PEPTIDES AND PROTEINS" AMERICAN JOURNAL OF HOSPITAL PHARMACY, AMERICAN SOCIETY OF HOSPITAL PHARMACISTS, BETHESDA, MD, US, vol. 51, no. 2, 15 January 1994 (1994-01-15), pages 210-218, XP000783643 ISSN: 0002-9289 the whole document abstract page 216, column 2, paragraph 3-6	1-39
X,Y	US 2002/131995 A1 (SZOKA FRANCIS C) 19 September 2002 (2002-09-19) the whole document paragraphs '0010!, '0025!; claims 1,12,13,22	1-39
X,Y	WO 00/41730 A (BROWN TRACEY ; MEDITECH RES LTD (AU)) 20 July 2000 (2000-07-20) the whole document page 3, lines 12-32 page 4, lines 8-13 page 5, lines 13-37 examples 2-8,12 page 75, lines 3-20 page 77, line 5 - page 82, line 17; claims 1-12	1-39
X,Y	WO 99/02151 A (ASCULAI SAMUEL S ; HYAL PHARMA CORP (CA); MOORE ADRIAN (GB)) 21 January 1999 (1999-01-21) the whole document pages 1-3 page 7, lines 15-22 page 8, lines 20-25 claims 1-10	1-39
X,Y	US 6 140 312 A (FALK RUDOLF EDGER ET AL) 31 October 2000 (2000-10-31) the whole document claims; example 7	1-39

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# INTERNATIONAL SEARCH REPORT

International Application No  
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,Y	US 6 350 458 B1 (MODI PANKAJ) 26 February 2002 (2002-02-26) the whole document column 1, lines 15-22 column 4, lines 25-27 column 7, lines 13-25 column 10, lines 15-19 column 10, lines 45-47, 58-60 column 13, lines 15-18, 39, 64 column 14, lines 5, 58-65 column 15, lines 4-18; claim 1; examples 2-4	1-39
X,Y	NA KUN ET AL: "Self-assembled hydrogel nanoparticles responsive to tumor extracellular pH from pullulan derivative/sulfonamide conjugate: Characterization, aggregation, and adriamycin release in vitro" PHARMACEUTICAL RESEARCH (NEW YORK), vol. 19, no. 5, May 2002 (2002-05), pages 681-688, XP009031095 ISSN: 0724-8741 the whole document abstract	1-39
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X,Y	FR 2 631 829 A (PASTEUR INSTITUT) 1 December 1989 (1989-12-01) the whole document page 1, lines 3-5	30-39

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA 03/01899

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
Although claims 31-38 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CN/2003/01899

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